

2020 Corn Commodity Survey



Corn Rust- Picture taken in Suwannee County, FL



Visual Survey for Corn Downy Mildew in Hamilton County, FL



Bucket Trap hanging in tree row between corn fields



Corn Smut- Picture taken in Hamilton County, FL



Corn Earworm –adult moth. (Picture copyright Bruce Marlin 2002)

Corn Commodity Survey

Introduction



☐ 2020 Survey

- ☐ Commercial & Organic Fields, Community Gardens
- ☐ Sweet Corn & Corn for Grain or Feed
- ☐ North Florida, Panhandle Region West of Suwannee River , Central and South Florida

☐ Types of Surveys

- ☐ Trapping for Insect Pests
- ☐ Visual Surveys for Corn Pests and Pathogens

Corn Commodity Survey

Target Pests (trapping surveys)



Old World Bollworm
Helicoverpa armigera
Bucket Trap w/Lure



Photos by G. Goergen
Spotted Stem Borer
Chilo partellus Delta trap w / lure



False Codling Moth
Thaumatotibia leucotreta
Delta Trap w/Lure



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Target Pests (visual surveys)



Java Downy Mildew

Peronosclerospora maydis

Visual Survey



Philippine Downy Mildew

Peronosclerospora philippinensis

Visual Survey



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Target Pests (visual surveys)



Late Wilt of Corn

Magnaporthiopsis maydis

Visual Survey



Cucurbit Beetle

Diabrotica speciosa

Visual Survey



www.meloidae.com

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Target Pests (visual surveys)



Corn Tar Spot (Complex):

Phyllachora maydis & *Monographella maydis*



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Target Pests (visual surveys)



- ❑ *Sipha maydis* – hedgehog grain aphid



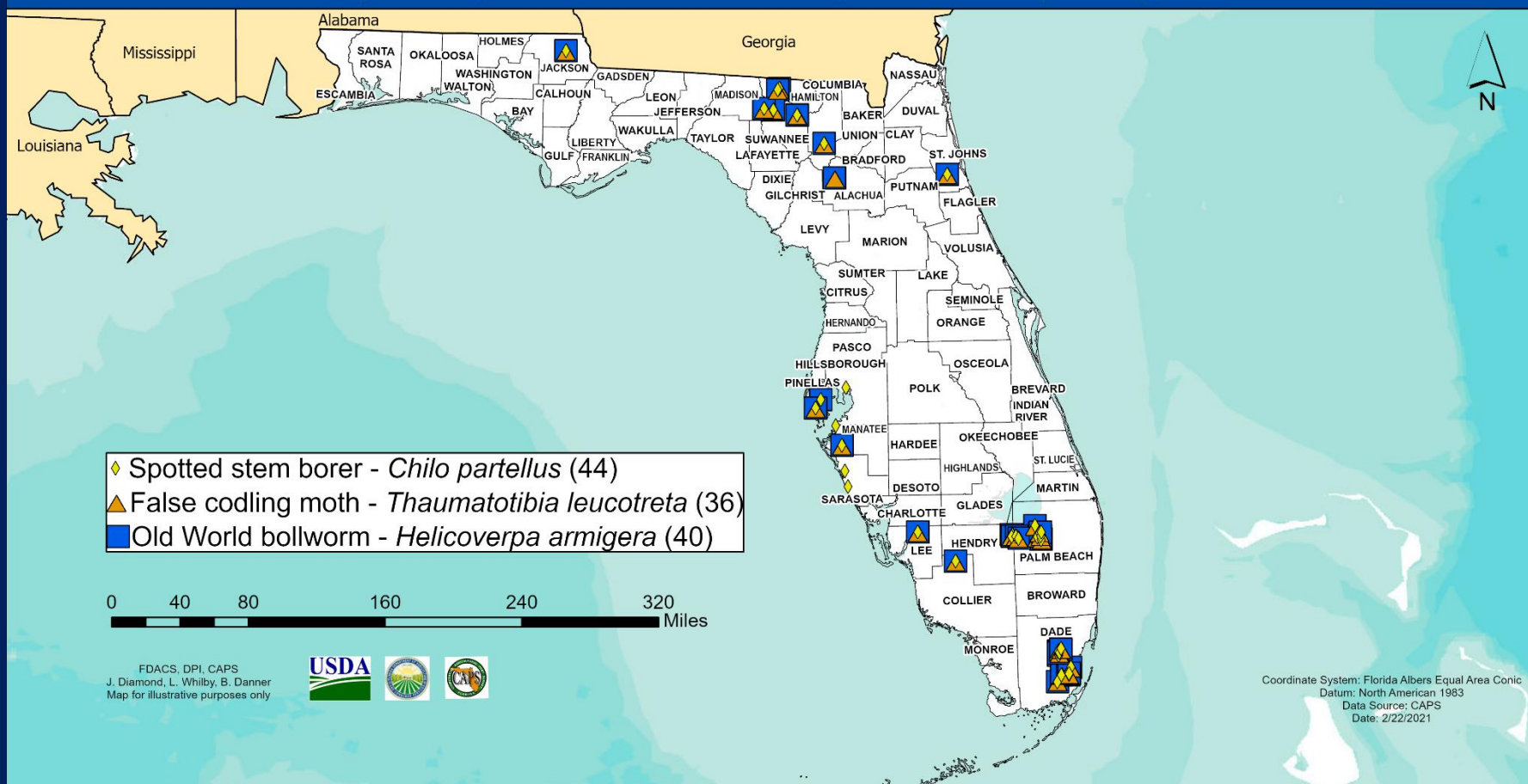
Corn Commodity Survey

2020 Results



Corn Survey 2020

Chilo partellus, *Thaumatotibia leucotreta*, and *Helicoverpa armigera*



FDACS, DPI, CAPS
 J. Diamond, L. Whilby, B. Danner
 Map for illustrative purposes only

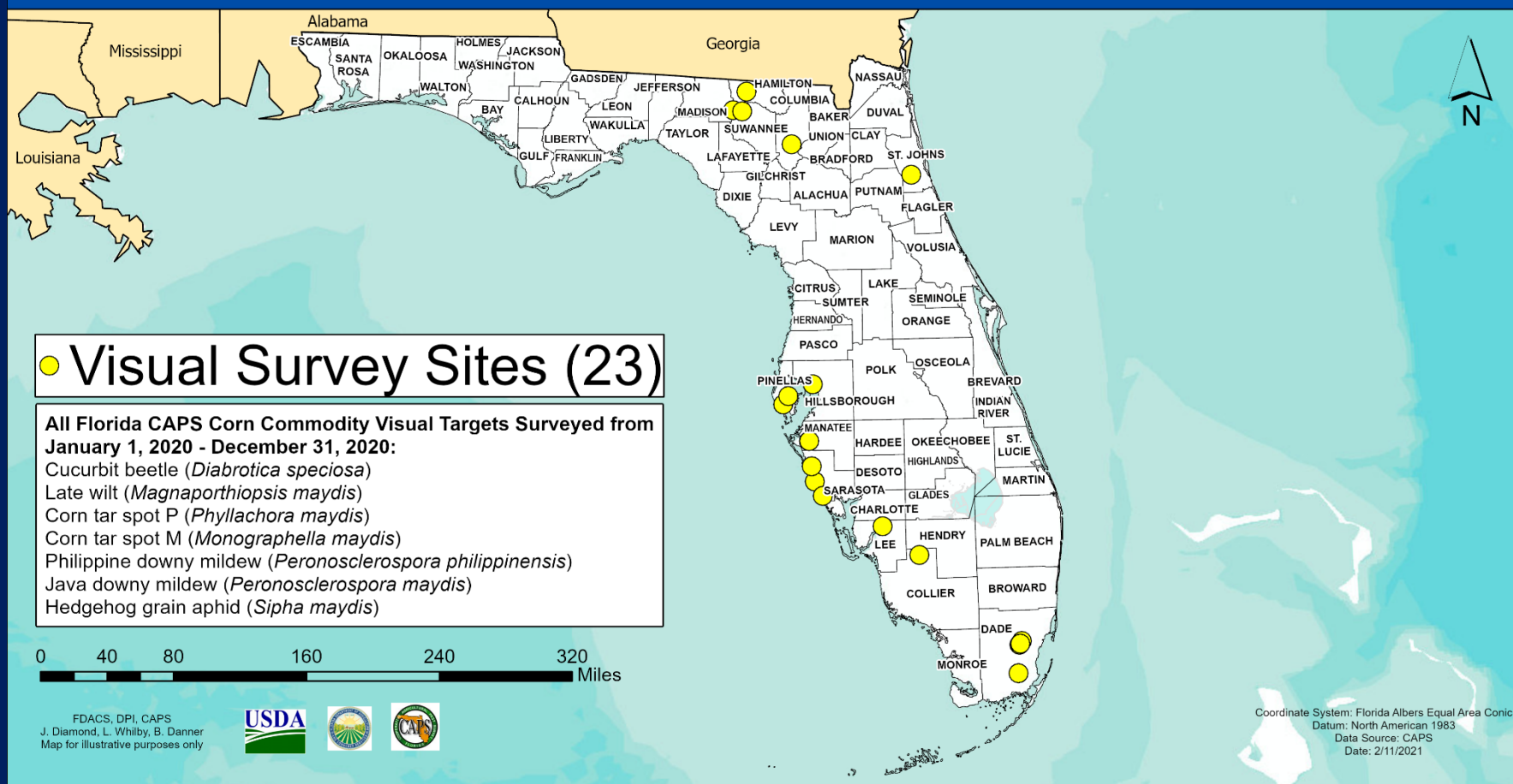


Corn Commodity Survey

2020 Results



Florida CAPS Corn Commodity Survey 2020 - Visual Survey Sites



Corn Commodity Survey

2020 Results



The Corn Commodity Survey for 2020 was executed in **15** Florida counties at **48** designated high risk sites.

	Counties	Traps	Checks	Specimens
<i>Helicoverpa armigera</i>	14	40	320	1418
<i>Chilo partellus</i>	15	44	278	106
<i>Thaumatotibia leucotreta</i>	14	36	270	79
Visual Surveys	12	*23	83	0

*Visual survey sites

No target pests or pathogens were detected

Corn Commodity Survey

Changes and Goals for 2021



- Remove *Chilo partellus*, (scored below OPEP Impact Assessment Model threshold level), and replace with *Autographa gamma* (Priority Pest List)
- Remove *Peronosclerospora maydis* from visual survey (no diagnostic method for screening and confirmation – not approved for bundling)
- Add *Laodelphax striatellus* – small brown planthopper (important virus vector rice, corn, wheat – pest of economic and environmental concern)
- Continue to trap and survey high risk, corn producing locations.
- Look for new potential trapping locations.
- Continue to visually survey the environs around trapping locations for other diseases and insect pests.

Thank you!

